







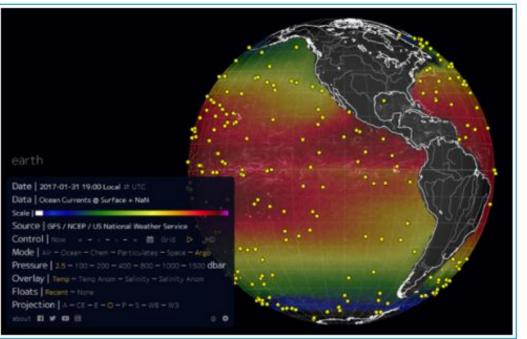








# Communications GOMO Program Review 2022



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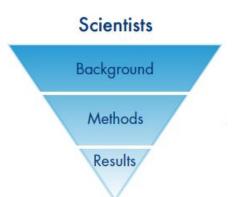




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# Today I will talk about...

**Science Communications** 



**GOMO Communications** 

Five Year Overview

**Outcomes and Impacts** 



**Next Steps & New Opportunities** 

Questions



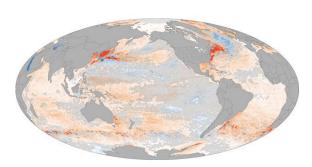


# Why is it important to communicate our science?

1. Increase visibility 2. Build awareness & support

OCEAN HEAT TRENDS (1993-2020)





3. Ensure longevity of the global ocean observing system & enterprise













# **GOMO's Communications Goals**

(in order of priority)

To promote GOMO's research, activities and significance, in line with Strategic Plan goals:

- 1. Internally to NOAA Senior Leadership
- 2. Externally to Capitol Hill
- 3. Externally to the variety of public audiences (scientific and not) to raise awareness
- 4. Internally (cross line office) within NOAA to facilitate coordination



<sup>\*</sup>Reference GOMO Comms Strategy document



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# How do we communicate our science?

Internally: taking advantage of **reporting** opportunities and **meetings** with leadership within NOAA

Externally: engaging **storytelling** tailored to the specific audience















# The Year is 2017:







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# Ocean Observing & Monitoring Division

Significantly fewer opportunities to communicate our science:

- Few opportunities to engage with NOAA senior leadership
- No opportunities to engage with Congress
- OOMD webpages were buried within the CPO website
- No direct access to engage with public audiences







### **Communications Transformation**

- Built systems to report news
- Shared SciComm Resources
- Developed strategic messaging and visuals
- Increased coordination with **OAR Communications &** Public Affairs teams → increased exposure of ocean observing news























# Global Ocean Monitoring and Observing Program: Communications Strategy

Overall Communications Goals (in order of priority): to promote GOMO's research, activities and significance, in line with <u>Strategic Plan</u> goals, to

- 1. NOAA Senior Leadership,
- 2. externally to Capitol Hill,
- the variety of public audiences (scientific and not) to raise awareness, and
- internally (cross line office) within NOAA to facilitate coordination

#### Key Message about GOMO: (more messages here)

By supporting over one million ocean observations each day, GOMO has increased our understanding of ocean health and vital marine processes, helping improve weather and climate forecasts, predictions for fisheries and ecosystem management, climate policy decisions, and the development of climate change adaptation and mitigation plans that benefit society.

#### Communications Resources:

- To submit news, use the <u>GOMO Communications Reporting Form</u>
- To see what has been posted, view the <u>GOMO SMM Updates Doc</u>
- To reference what is being posted on the OAR Hub: <a href="https://hub.oar.noaa.gov/Home.aspx">https://hub.oar.noaa.gov/Home.aspx</a>
- Communications Resources folder (including PPT templates): https://drive.google.com/drive/u/0/folders/1Nm2p93gZv57mNadld0BcDA9DzC31gKGC
- GOMO Program Slides, Key Messages & 2pagers folder: <a href="https://drive.google.com/drive/u/0/folders/1kjL9uJlxjEfZRf5L94Dzlpbml7oQuWqH">https://drive.google.com/drive/u/0/folders/1kjL9uJlxjEfZRf5L94Dzlpbml7oQuWqH</a>
- GOMO Pictures folder: https://drive.google.com/drive/u/0/folders/1yHdO\_aVvjCbra2WVBs7tSBol6V9cYgX-





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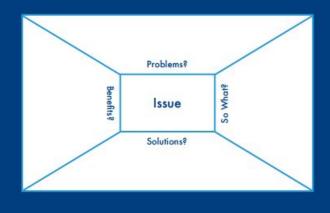
# **Quick Guide** to **Newsworthy Science**

SHARING SEIENCE APPOGRAM of AGU

sharingscience.agu.org

### The Message Box Workbook

Communicating Your Science Effectively





#### NEWSWORTHY

RESULTS

- Are new or previously unknown
- · Advance a field significantly
- · Impact our daily lives
- · Relate to current events
- Are unexpected or eye-catching
- Go against the current consensus
- Include striking videos or photographs



#### NON-NEWSWORTHY

RESULTS

- · Are an incremental advance
- Improve a model or technique
- Confirm what is already known
- · Have already been reported
- Summarize the latest in a field (review paper)







## **Communications Outlets**

#### **Internally, within NOAA:**

- Weekly Report for the OAR Senior Management Meeting
  - Audience: OAR Senior Management Program/Lab Directors
- Submit "Hot Items" on the OAR Hub website: <a href="https://pub.oar.noaa.gov">hub.oar.noaa.gov</a>
  - Audience: all NOAA but mostly OAR employees
- SMM Spotlight Presentations
  - Audience: OAR Senior Management Program/Lab Directors

**Content:** Upcoming Releases & Announcements; Legislative Engagement; Field Campaigns & Major Scientific Activities; Scientific Publications



### **Communications Outlets**

#### **Externally, outside NOAA:**

- GOMO Community Newsletter
  - Audience: mostly internal ocean observing community (approx 225 contacts)
- GOMO Website: <u>globalocean.noaa.gov</u> active News page!
  - Audience: internal ocean observing community, science aware general public
- OAR website <u>research.noaa.gov</u> & social media @NOAAResearch
  - Audience: science-interested & general public



# Now that we are a **Program!**



#### **OUR MISSION**

To provide and support high quality global ocean observations and research to improve our scientific understanding and inform society about the ocean's role in environmental change.





The ocean covers 71% of the Earth's surface and cont profoundly affect weather, the environment, marine e

global populat

variations, and Observing (GO temperature

#### Through GOMO, NOAA supports more than ONE MILLION ocean observations each day!

- We partner with over 50 countries in developing and sustaining the global ocean observing system.
- We collaborate nationally with NOAA Laboratories, Universities, Cooperative Institutes, and Federal Agencies to achieve NOAA's mission.

Our Unique Contribution: NOAA's Global Ocean Monitoring and Observing Program is the U.S. Federal source and international leader for sustained, in situ global ocean observations and information in support of research, monitoring, and prediction.





Global Ocean Monitoring and ( NOAA Office of Oceanic and At gomo@noaa.gov| globalocean



The tropical Pacific Ocean has global impact. It is the source of the strongest and most predictab global climate and extreme weather - El Niño Southern Oscillation (ENSO), NOAA's contributions

The ocean represents 71% of the Earth's surface, 97% of the Earth's water, and is inextricably linked to climate.

https://globalocean.noaa.gov/About-Us/Program-Information

ecosystems and the U.S. cean chemistry, and can king to answer these ean floor, conducted

ENSO is a cycle of warm (El Niño) and cool (La Niña) episodes of a recurring climate pattern in the tropical Pacific Ocean. Impacts to U.S. winter weather include:

- → El Niño usually brings milder conditions to the northern areas and wetter conditions to the south
- → La Niña typically brings cooler weather to the northwest and warmer weather to the southeast



TPOS Benefits to the U.S. - TPOS allows us to gain a greater understanding of the tropical Paci the uncertainty of climate variability, and provide improved predictions and longer forecast lead dictions of extreme climate episodes like floods and droughts could save the U.S. billions of doll. and help to improve community resilience.



Global Ocean Monitoring and Observing Program NOAA Office of Oceanic and Atmospheric Research gomo@noaa.gov | tropicalpacific.org

For more infor Cheyenne

through the international Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP) and the Surface Ocean CO<sub>2</sub> Reference Observing Network (SOCONET). Sustained and improved ocean carbon research can better inform ecosystem and fisheries management, coastal and city planning and climate mitigation and adaptation policy.

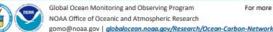
#### How important is the ocean when it comes to climate?

- A major service the ocean provides is the uptake of CO<sub>2</sub>. It is estimated that the ocean absorbs 25% of CO2 emissions per year. Without the ocean, the atmosphere would be even warmer than it is today.
- Based on the estimated social cost and economic value of carbon at \$51 per ton, the ocean's uptake of CO2 is worth about \$515B per year, or \$1.4B each day!

NOAA's Leadership Role: NOAA is at the forefront of ocean chemical, physical, and biological monitoring in support of ocean carbon cycle observations and research. NOAA is a leader in quantifying global ocean carbon uptake and provides 50% of global ocean carbon observations. NOAA plays an important and influential role in organizing international efforts to address global challenges.



CTD Rosettes (pictured above) measure conductivity, temperature, carbon dioxide and depth throughout the water column.



Global Ocean Monitoring and Observing Program For more information, please contact: NOAA Office of Oceanic and Atmospheric Research Kathy.Tedesco@noaa.gov 员

#### **NEWS**



Pacific and Atlantic Oceans.





4 Ways NOAA is Studying the Ocean's Role

Jessica Mkitarian / Saturday, June 19, 2021 Q 0 1414





RAMA's data is particularly important to India, which is primarily impacted by monsoons. #MeetABuoy #OceanMonthNOAA

RAMA is the newest part of the Global Tropical Moored

Buoy Array, which also includes buoy arrays in the



#### New Report Outlines Vision for Ocean C Climate

NOAA SCIENTIST CONTRIBUTES TO UNESCO REPORT

Jessica Mkitarian / Monday, May 3, 2021 Q 0 410

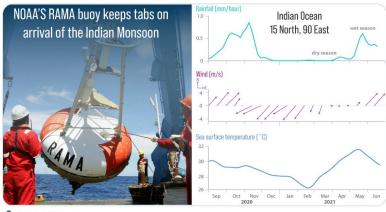




#### GO-SHIP Launches First GO-BGC Argo F

Jessica Mkitarian / Sunday, May 2, 2021 Q 0 248





NOAA Climate.gov

11:24 AM · Jun 23, 2021 · Twitter Web App



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#### **fNOAA**

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In recognition of these OAR employees for their creation and participation in diversity initiatives that have drawn attention to NOAA and the great work and research that women are conducting: Jessica Mkitarian (GOMO), Caitlin Valentine (COMMS) and Dr. Emily Smith (GOMO).

EEO/Diversity Award for Exemplary Service Program

Global Ocean Monitoring Observing Program (GOMO) al campaign

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# **Annual Avg Comms Stats**

(2019 - 2021)

#### **INTERNAL COMMS**

Hot Items & Weekly Report Submissions: **75** 

SMM Spotlight Presentations: 3

#### **EXTERNAL COMMS**

# news articles published on GOMO: 24

# OAR articles using GOMO research: 3





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#### Expanding the Website:

Added 4 webpages (workshop pages, Strategic Plan, DEIA)

#### Utilizing @NOAAResearch's Social Media:

- June 2021 World Ocean Month: #MeetaBuoy campaign & GOMO web story 4 Ways NOAA is Studying the Ocean's Role in Climate
  - 1 50% in users visiting the GOMO website
  - 1 63% in sessions
  - 1 35% in average session duration (time spent on the website)
  - 4 Ways article has highest views of all articles in 2021 (4,000+)
- December 2021: top @NOAAResearch Facebook post was from <u>Argo</u> news release















# **Next Steps & NEW OPPORTUNITIES**

- Video Projects: <u>Satellites of the Sea: Observing</u> the Ocean for Hurricane Research
- Increasing Comms about Hurricane Research:
   Improving Hurricane Predictions by Observing
   the Ocean with Cheyenne Stienbarger
- Showcasing & Expanding Education and Outreach: Developing a blog for fellows and interns to share their experiences while at GOMO
- Preparing for Hill Engagement by developing more Congressional briefing sheets (one for each program)













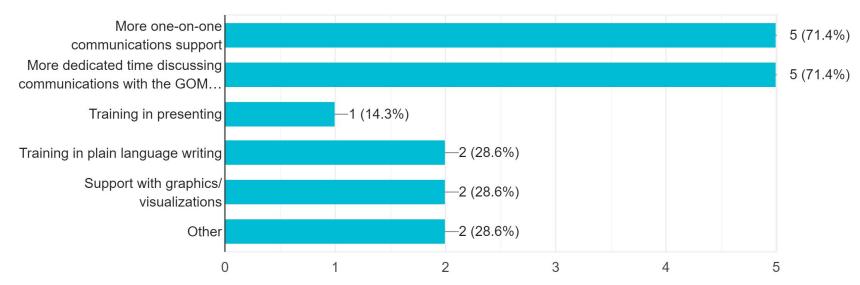






### From Comms Check In <u>Survey Results</u> (Nov. 2021)

What would help you/your portfolio get out messages about the impact of your work? 7 responses



"I think we miss many stories, either because **we don't know about them** (e.g. new published papers), or we **don't have the time/resources to develop the story** (e.g. IPCC report gave us a great opportunity to claim credit for all the ocean knowledge in the report, but we didn't think or plan to utilize that opportunity)"



















# Opportunities to Expandwith more Resources!

- Developing more web stories that aren't urgent news
- **Website management:** 
  - Google analytics
  - Building new pages
  - Updating pages (Funded Projects, Research pages)
- Blogs
- PI/ECOP interviews/spotlights on the website and in newsletter
- Social media (ie LinkedIn, Twitter)
- More Arctic communications
- Storymaps and other visual storytelling methods
- More visibility of our **outreach/education** programs
- More documents/messaging geared towards Congress/staffers and the public
- Accomplishments reports
- GOMO-hosted webinars
- Etc, etc, etc...

#### **GAPS:**

Newsletter

Website

**Policy** 

Outreach





# GOMO's communications portfolio is growing! Opportunities to engage with our many audiences are increasing!

Continued support of communications will lead to greater awareness of the **impact and value of global ocean observations**.

- → Increased visibility can lead to more funding and support
- → Engaging stories can increase awareness of what we do and why it's important, and even inspire young people to get involved in the goos!















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# Thank You + Questions?









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